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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/500,620	07/01/2004	Jigang Liu	CN 020002	4330
65913 NXP. B.V.	7590 04/27/20	09	EXAMINER	
NXP INTELLECTUAL PROPERTY DEPARTMENT			NGUYEN, TUAN HOANG	
M/S41-SJ 1109 MCKA	Y DRIVE		ART UNIT	PAPER NUMBER
SAN JOSE, CA 95131			2618	
			NOTIFICATION DATE	DELIVERY MODE
			04/27/2009	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ip.department.us@nxp.com

## Application No. Applicant(s) 10/500.620 LIU, JIGANG Office Action Summary Examiner Art Unit TUAN H. NGUYEN 2618 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 13 February 2009. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.3.5-7 and 21-34 is/are pending in the application. 4a) Of the above claim(s) 2.4 and 8-20 is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) \_\_\_\_\_ is/are rejected 7) Claim(s) is/are objected to. 8) Claim(s) 1.3.5-7 and 21-34 are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

information Disclosure Statement(s) (PTO/S5/06)
Paper No(s)/Mail Date \_\_\_\_\_\_.

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

Application/Control Number: 10/500,620 Page 2

Art Unit: 2618

### DETAILED ACTION

## Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/13/2009 has been entered.

### Election/Restrictions

This application contains claims directed to the following patentably distinct species of the claimed invention:

Claims 1, 3, 5-7, 21-34 are directed to 4 species as illustrated in figure 1/1. Four species are identified as below.

Species 1 – claims 1, 3 and 5-7 directed to a transceiver for transmitting signals in a transmitting mode and for receiving signals in a receiving mode and comprising a single digital synthesizer driven phase locked loop, wherein said digital synthesizer driven phase locked loop, in said transmitting mode, is in a modulating state and receiving a modulation signal, with said digital synthesizer driven phase locked loop, in said receiving mode, being in an oscillating state and receiving a non-modulation signal, wherein said digital synthesizer driven phase locked loop comprises, in said

Application/Control Number: 10/500,620

Art Unit: 2618

modulating state, a first filtering performance, with said digital synthesizer driven phase locked loop comprising, in said oscillating state, a second filtering performance different from said first filtering performance as shown in figure 1/1 of the application.

Species 2 – claims 21-27, 29 and 32-34 directed to when the transceiver is in a transmitting mode, the digital synthesizer receives a modulation signal, modulates a reference signal in response to the modulation signal, and transmits the modulated reference signal to the phase locked loop; and when the transceiver is in a receiving mode, the digital synthesizer receives a non-modulation signal, generates a non-modulated reference signal, and transmits the non-modulated reference signal to the phase locked loop as shown in figure 1/1 of the application.

Species 3 – claim 28 directed to a phase locked loop for use in a transceiver, the phase locked loop comprising: a phase detector for receiving a one of a modulated reference signal modulated by a modulation signal and a non-modulated reference signal; a first filter for filtering the modulated reference signal; and a second filter different from the first filter for filtering the non-modulated reference signal; wherein the phase detector receives the modulated reference signal when the transceiver is in a transmitting mode and receives a non-modulated reference signal when the transceiver is in a receiving mode as shown in figure 1/1 of the application.

Species 4 – claims 30 and 31 directed to a digital synthesizer for use in a transceiver, the digital synthesizer comprising: a phase accumulator for receiving a one of a modulation signal and a non-modulation signal; wherein in response to receiving the modulation signal, the digital synthesizer modulates a reference signal by

the modulation signal and transmits the modulated reference signal to a phase locked loop of the transceiver; and wherein in response to receiving the non-modulation signal, the digital synthesizer generates a non-modulated reference signal and transmits the non-modulated reference signal to the phase locked loop as shown in figure 1/1 of the application.

- Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.
- 4. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.
- 5. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).
- Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record

Application/Control Number: 10/500,620

Art Unit: 2618

8.

showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

### Conclusion

Any response to this action should be mailed to:

Mail Stop\_\_\_\_\_ (Explanation, e.g., Amendment or After-final, etc.)

Commissioner for Patents

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Facsimile responses should be faxed to:

(571) 273-8300

Hand-delivered responses should be brought to:

Customer Service Window

Randolph Building

401 Dulany Street

Application/Control Number: 10/500,620

Art Unit: 2618

## Alexandria, VA 22313

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan H. Nguyen whose telephone number is (571) 272-8329. The examiner can normally be reached on 8:00Am - 5:00Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Maung Nay A. can be reached on (571) 272-7882. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information Consider the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Tuan H. Nguyen/ Examiner Art Unit 2618 Application/Control Number: 10/500,620 Page 7

Art Unit: 2618